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PCT/JP2004/005909 Amended Claim 1 under PCT Article 19

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Claims

What is claimed is:

1. A superconducting permanent magnet apparatus, comprising
 - (1) a composite bulk which is composed of one or more bulk superconductor(s) that are held in a vacuum vessel in a thermally insulated condition, and that become magnets by capturing a magnetic field in a superconductive condition,
 - (2) at least one pair of said vacuum vessels that are positioned at such a distance that the magnetic field generated from said composite bulks in each of said vacuum vessels affects each other, thus making a composite magnetic field,
 - (3) a vacuumizing apparatus for vacuumizing said vacuum vessel,
 - (4) a cooling apparatus for cooling said bulk superconductors below the superconductivity transition temperature so that said bulk superconductors are in superconductive condition,
 - (5) a magnetizing coil generating a magnetic field for magnetizing said bulk superconductors, said magnetizing coil either being a superconductor coil, or being a copper coil generating a pulse magnetic field,
 - (6) wherein, each of said composite bulks is composed of a plurality of said bulk superconductors being arranged substantially in parallel with each other such that a larger usable space having a strong magnetic field is formed.